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# Engineers' Bookshelf



## Air Conditioning For Comfort

(Engineering Publication, Inc., Chicago) 244 pages, \$2.00

By SAMUEL R. LEWIS

THIS volume has been issued in response to the almost universal interest in the subject of air conditioning as it may be applied to the home and to smaller stores, offices, etc.

The book treats of theory and practice. It takes the reader logically through the fundamental data required in the designing of a system of air conditioning; shows the application of the formulas developed to the necessary calculations; and finally proceeds to the actual calculations required for two residences and a restaurant installation.

It is indicative of the practical viewpoint adopted by the author that he has insisted throughout the book on this thought: "Heating systems are considered in this book along with cooling systems," he says in his preface, "because of the very close relation between the two, and because it appears inevitable that the best cooling systems of the future will be those, the designing of which was borne in mind when the heating system, with which it coordinates, was designed."

The twelve chapter subjects are as follows: 1—Explanation of Terminology; 2—Instruments of Service in Air Conditioning; 3—Relation of the Human Body to Air Conditioning; 4—The Influence of the Type of Heating System upon Air Conditioning; 5—Heat Transmission Through Building Materials; 6—Calculations for Air Conditioning Requirements; 7—Sunshine, Evaporation, Air Leakage and Lighting; 8—Air Distribution Within the Rooms of Cooling Systems; 9—Controlling the Temperature in Air Conditioning Systems; 10—Water Circulation in Heating and Cooling Systems; 11—Air Ducts in Heating and Cooling Systems; 12—Computations for an Actual Design.

Every type of equipment now available is touched upon and various methods of humidification, dehumidification, cooling, filtering, etc., are described. Chemical processes of extracting moisture, the use of refrigerants and of ice are adequately covered. Attached to the inside back cover of the book is a large psychrometric chart. Its use is developed in the pages of the book.

All of the necessary tables and formulas for calculating heat losses, friction in pipes and ducts, for the conversion of ducts from round to rectangular, for calculating sizes and power, etc., will be found in the book, together with detailed drawings of equipment and of the enclosures for which calculations are made.

Mr. Lewis is admirably equipped for the job. He is a pioneer in the application of air conditioning to larger structures; has designed heating and ventilating systems for the schools of Toledo, Ohio, for twenty-four years,

and those of Columbus, Ohio, since 1913. During these years he has carried on a consulting practice in heating and ventilating. He is a past president of the American Society of Heating & Ventilating Engineers, and has been chairman of the committee of research, and of the committee of that association's Guide.

His book is at once a handy reference work and yet presents the material in such form as will make convenient a logical course in the subject of air conditioning for the classroom, or for the engineer, architect, contractor, or other individual interested in bringing his knowledge of the growing practice in air conditioning up to the minute. An adequate cross-index adds to the reference value of the work.

## Swiss Family Manhattan

By CHRISTOPHER MORLEY

ALTHOUGH the United States has been criticized frequently enough by outsiders only a few American writers have done so. In this altogether delightful little story Christopher Morley holds up to ridicule certain characteristics of modern life in the United States. The story starts in Switzerland with the trivialities of the life of an attaché for the League of Nations, and his family. Needing a vacation, he decides to take a trip on a newly built dirigible which will travel between Europe and the United States. The journey is begun very well but about two-thirds of the way across they run into a severe storm. The air liner is demolished but they manage to save themselves by clinging to a sort of aeronautical life preserver. Just before morning they drift onto what they believe to be land. It is, in reality, the steel frame-work of a New York skyscraper. Once in the United States complications develop.

The Professor, as he calls himself, thinks he has landed in some rough wilderness. He believes the men he sees are some relation to the anthropoid apes. Then in the struggle for existence he meets a blonde and becomes separated from his wife, after many adventures he finds her in a "speech easy." In winding up the plot the author achieves a clever satire on "We Americans." Although the story borders on the fantastic and is a bit satirical it is quite interesting.

—H. W. McF.

## "Larry"

—Thoughts of Youth—

"LARRY" is a book composed of the papers and letters of a modern college student. The author of these papers was Larry Foster. Larry spent two years at Lafayette College where he did remarkable well in his studies as well as participated in many college activities.

While on his summer vacation (after his sophomore year) he was accidentally killed. After his death several of his papers and parts of his diary were published and were so well received that a collection of them was made and taken as they were, put into book form.

The papers begin with Larry's first day at college and carry through with continuity until a few days before his death. In his own words and style Larry relates the outstanding experiences he had while in college and on his vacation. You also get an idea of this unusual boy's philosophy and character. After reading this book you feel you had been an intimate friend of Larry and regret that he is no longer with us. Any real man or woman will surely receive enjoyment and profit by reading "Larry."

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